*Top Enclosure Replacement (Continued)*

### *Step 2 Removing the Display Assembly*

Remove: • Display Assembly

(See Section 7.4.5 for more detailed instructions on removing the display assembly.)

### *Step 3 Removing the Control Pad*

Remove: • Control Pad

(See section 7.4.6 for more detailed instructions on removing the control pad.)

### Step 4 Installing the Control Pad

Install: • Control Pad

(See Section 7.4.6 for more detailed instructions on installing the control pad.)

### Step 5 Installing the Display Assembly

Install: • Display Assembly

(See Section 7.4.5 for more detailed instructions on installing the display assembly.)

### *Step 6 Installing the Top Enclosure*

a. Ensure that the outlet port is still properly seated in the enclosure insert.

b. While holding the top enclosure slightly above the unit, align the display assembly ribbon cable connector with its receptacle on the Main PCA. Press the connector into its receptacle until completely seated.

c. Still holding the top enclosure slightly above the unit, align the control pad ribbon cable connector with its receptacle on the Main PCA. Press the connector into its receptacle until completely seated.

d. Align the top enclosure with the bottom enclosure then set it in place.

e. While securely holding the top and bottom enclosure together, carefully turn the unit upside down.

f. Insert and tighten the three Phillips screws to secure the top enclosure to the bottom enclosure.

g. Return the unit to its upright position.

## 7.4.5 Display Assembly Replacement

**Replacement Part Number 622241**

| Included in Kit: | Tools Required: |
|---|---|
| Display (PCA)<br>LCD | Phillips screwdriver (No.2 medium) |

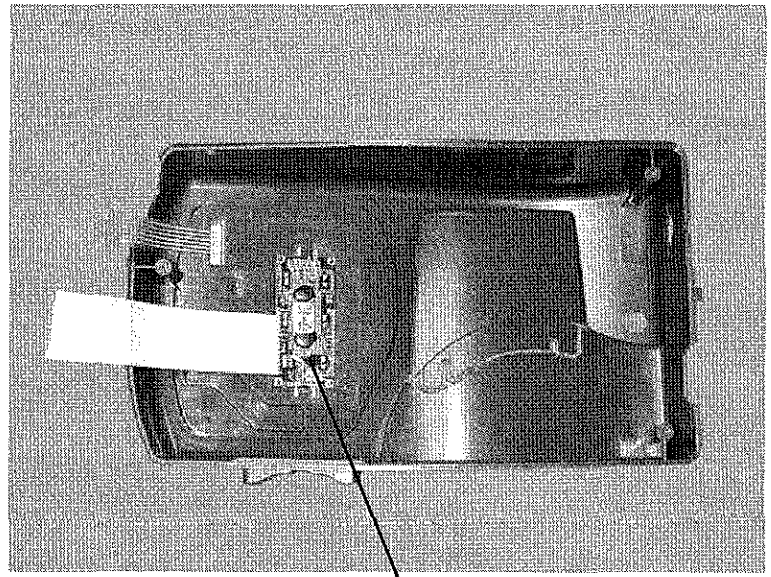
### Procedure

Removed / Installed During Process:

- Top Enclosure (See Section 7.4.4 for more detailed instructions.)
- Display Assembly

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.



**Display Assembly**

*Figure 7-10*

*Display Assembly Replacement (Continued)*

### *Step 1 Removing the Display Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors

### *Step 2 Removing the Display Assembly*

a. Place the top enclosure on a protected work surface and carefully turn it over, exposing the underside.

b. Move the display assembly locking tabs away from the display assembly then lift the display assembly straight up from the top enclosure.

**Display Assembly Locking Tabs**

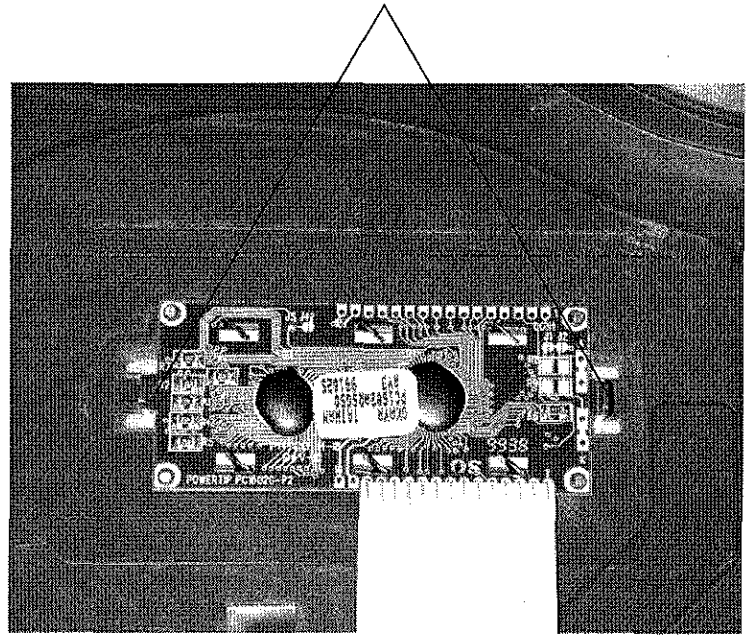


*Figure 7-11*
*Location of the Display Assembly Locking Tabs*

### *Step 3 Installing the Display Assembly*

a. Align the display assembly with the four mounting posts and gently press into the top enclosure until the locking tabs "snap" into place. Note that the ribbon cable side of the display assembly must point towards the front of the top enclosure.

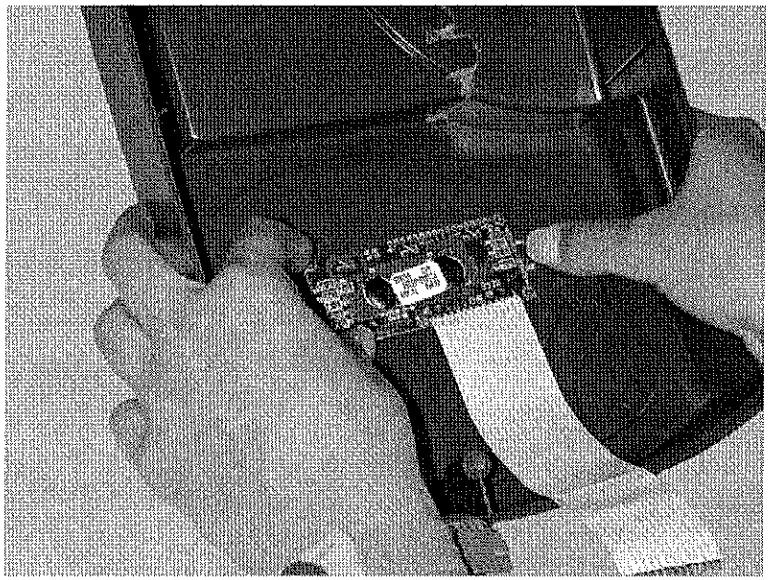


*Figure 7-12*
*Display Assembly*

### *Step 4 Installing the Top Enclosure Assembly*

Install:

- Control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure.)

## 7.4.6 Control Pad Replacement

### Replacement Part Number 1007823

| Included in Kit: | Tools Required: |
|---|---|
| Control Pad | Phillips screwdriver (No.2 medium)<br>Flat-blade screwdriver (small)<br>Isopropyl alcohol<br>Cleaning cloth |

### Procedure

Removed / Installed During Process:

- Top Enclosure (See Section 7.4.4 for more detailed instructions.)
- Display Assembly (See Section 7.4.5 for more detailed instructions.)
- Control Pad

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

*Figure 7-13*
*Control Pad*

*Control Pad Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors

(See Section 7.4.4 for more detailed instructions on removing the top enclosure assembly.)

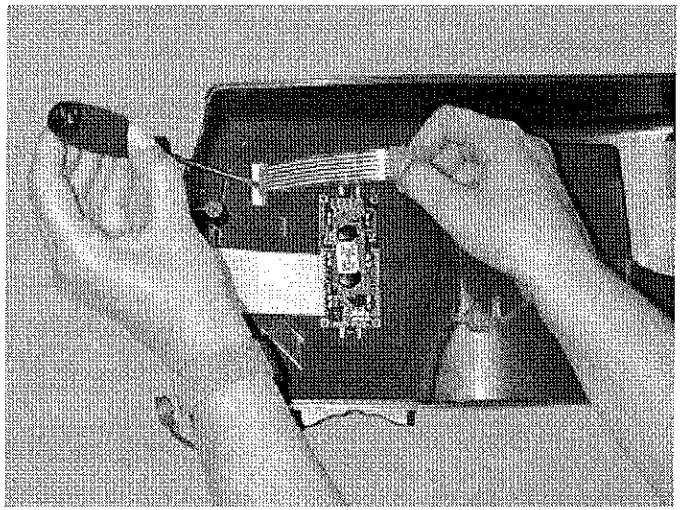


***Figure 7-14***
***Pressing the Control Pad from the Top Enclosure***

### *Step 2 Removing the Control Pad*

a. Working from the inside of the top enclosure, place a flat-blade screwdriver onto the exposed portion of the control pad, next to the ribbon cable. Gently push until the control pad is partially lifted.

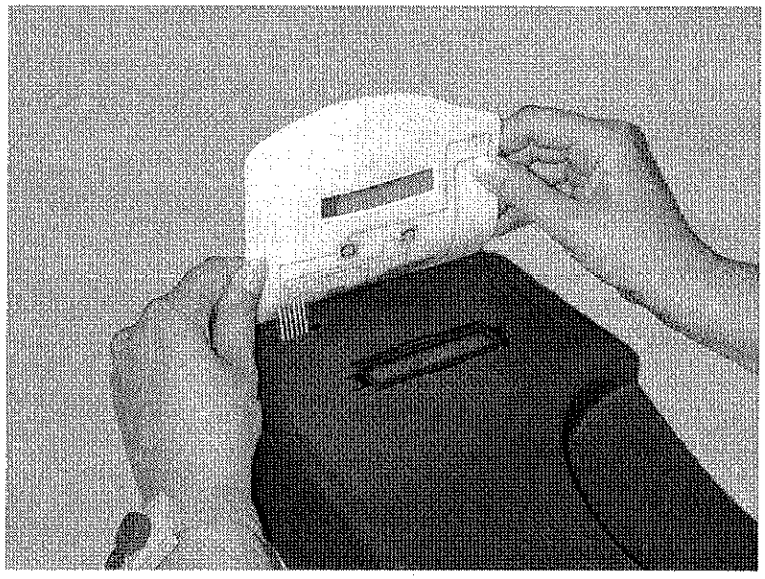


***Figure 7-15***
***Removing the Control Pad***

*Control Pad Replacement (Continued)*

b. Working from the outside of the top enclosure, carefully lift upwards on the control pad and remove it from the top enclosure.

**NOTE:** A small amount of isopropyl alcohol may be used during the removal process.

c. As the control pad is being removed, the ribbon cable must be fed through the opening in the top enclosure.

d. Use a small amount of isopropyl alcohol on a cleaning cloth to remove any adhesive residue from the surface of the top enclosure.

### *Step 3 Installing the Control Pad*

a. Remove the protective backing from the back of the control pad. (Make sure the backing under the ribbon cable is removed.)

b. Feed the control pad ribbon cable through the opening of the top enclosure.

c. Starting with the front edge, align the control pad with the indentation in the top enclosure then set in place. Using a rubbing motion, press the control pad firmly onto the top enclosure.

### *Step 4 Installing the Display Assembly*

Install:
- Display Assembly

(See Section 7.4.5 for more detailed instructions on installing the display assembly.)

### *Step 5 Installing the Top Enclosure*

Install:
- control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure.)

# 7.4.7 Main Printed Circuit Assembly (Main PCA) Replacement

**CAUTION:** Due to required testing after replacement, the BiPAP Pro Main PCA is only replaceable at a Respironics Service Center equipped with a Multi Functional Test Station.

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

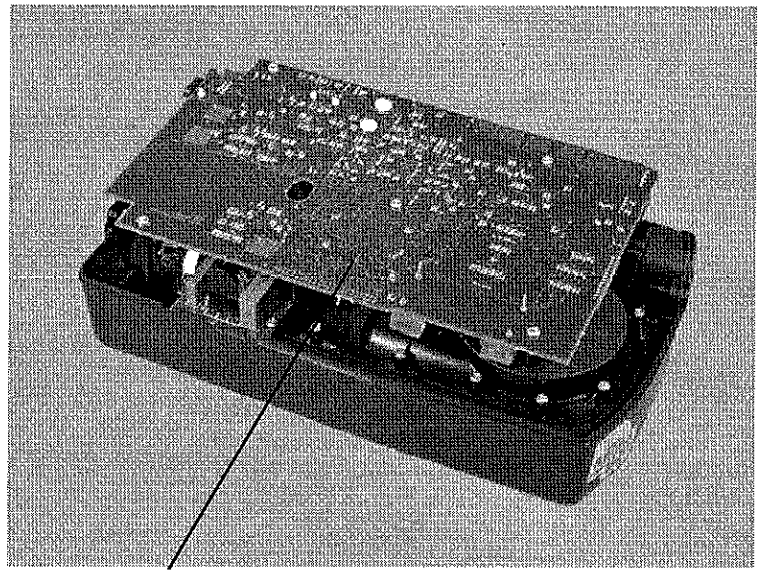
## Replacement Part Number 1007822

| Included in Kit: | Tools Required: |
|---|---|
| Main PCA<br>6-13 x 3/8″ screws (x5) | Phillips screwdriver (No.2 medium) |

## Procedure

Removed / Installed During Process:

- Top Enclosure (See Section 7.4.4 for more detailed instructions).
- Main PCA



**Main PCA**

*Figure 7-16*
*Main Printed Circuit Assembly*

*Main PCA Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors

(See Section 7.4.4 for more detailed instructions on removing the top enclosure.)

### *Step 2 Removing the Main PCA*

a. Using a Phillips screwdriver, remove the five screws securing the Main PCA to the standoffs on the enclosure insert.

b. Lift the Main PCA slightly to provide access to the pressure tubing, mass flow sensor tubing, blower, valve and power supply connections.

c. Remove the blower wire connector from the (J6) location on the Main PCA by pulling it straight down from the receptacle.

d. Remove the power supply connector from the (J2) location on the Power Supply Printed Circuit Assembly by pulling it straight up from the receptacle.

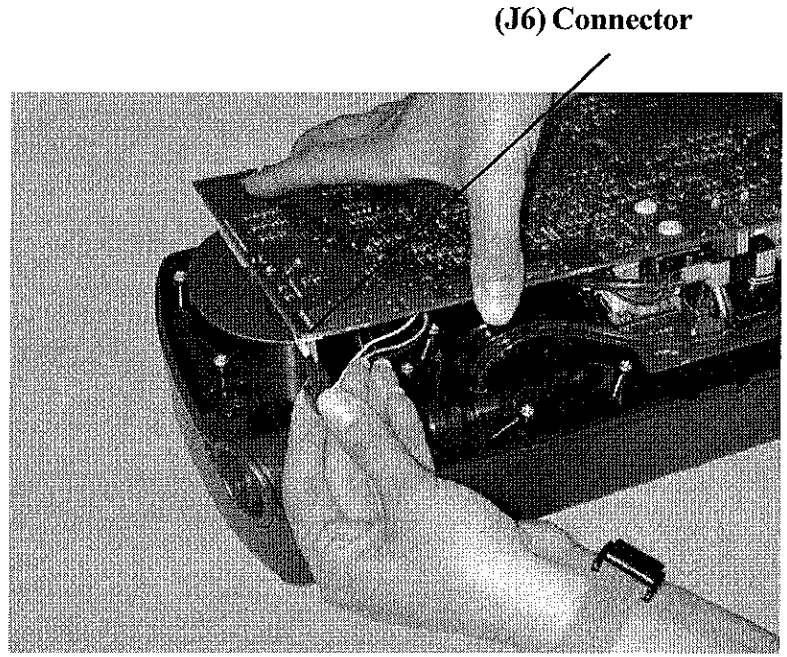



***Figure 7-17***
***Removing the Blower Connector from the (J6) Location***

*Main PCA Replacement (Continued)*

e. Remove the valve connector from the (J13) location.

**(J5) Connector**

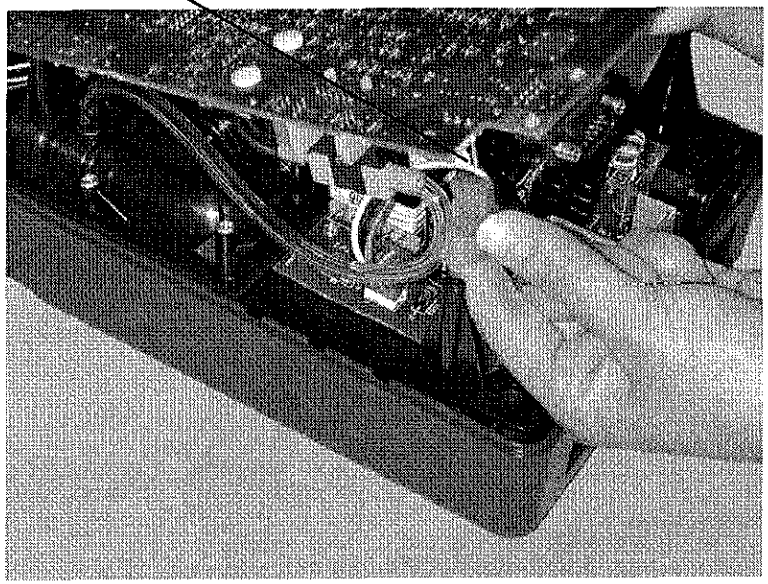


*Figure 7-18*
*Removing the Power Supply Connector from the J5 Location*

f. Remove the two pieces of 9″ mass flow sensor tubing from the MT2 location.

g. Remove the piece of 5″ pressure tubing from the MT1 location.

h. The Main PCA is now free from the rest of the unit.

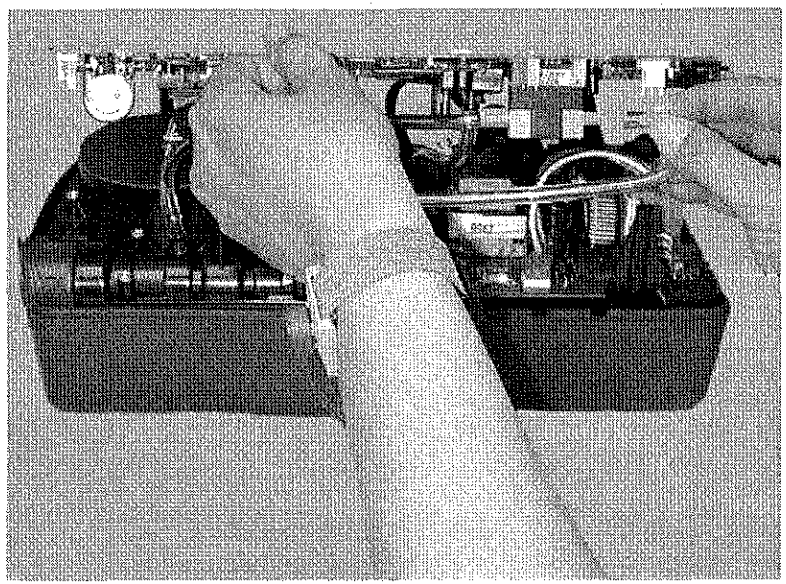


*Figure 2-19*
*Removing the Flow Sensor tubing from the MT2 location*

*Main PCA Replacement (Continued)*

### *Step 3 Installing the Main PCA*

a. Connect the 5″ piece of pressure tubing to MT1.

b. Connect the two 9″ pieces of mass flow sensor tubing to MT2.

c. Install the valve assembly connector to the (J13) location on the Main PCA.

d. Install the Main PCA power supply connector into the (J2) location on the Power Supply PCA by aligning it with the receptacle and gently pushing it into place.

e. Install the blower connector on the (J6) location on the Main PCA by aligning it with the receptacle and gently pushing it into the receptacle.

f. Align the holes in the Main PCA with the holes in the enclosure insert standoffs.

g. Secure the Main PCA to the enclosure insert by installing and tightening the five screws provided.

**NOTE:** Make sure the pressure tubing is not kinked by components on the PCA.

### *Step 4 Installing the Top Enclosure*

Install:
- control pad ribbon cable and display assembly ribbon cable connectors.
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the display assembly.)

# 7.4.8 Pressure and Mass Flow Sensor Tubing Replacement

**CAUTION:** Due to required testing after replacement, this item is only replaceable at a Respironics Service Center equipped with a Multi Function Test Station.

## Replacement Part Number 622240

| Included in Kit: | Tools Required: |
|---|---|
| Pressure tubing (5″) x 1<br>Mass flow sensor tubing (9″) x 2 | Phillips screwdriver No.2 (medium) |

## Procedure

Removed / Installed During Process:

- Top enclosure (See Section 7.4.4 for more detailed instructions.)
- Main PCA
  (See Section 7.4.7 for more detailed instructions.)
- Mass flow sensor tubing
- Pressure tubing

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-Protected environment.

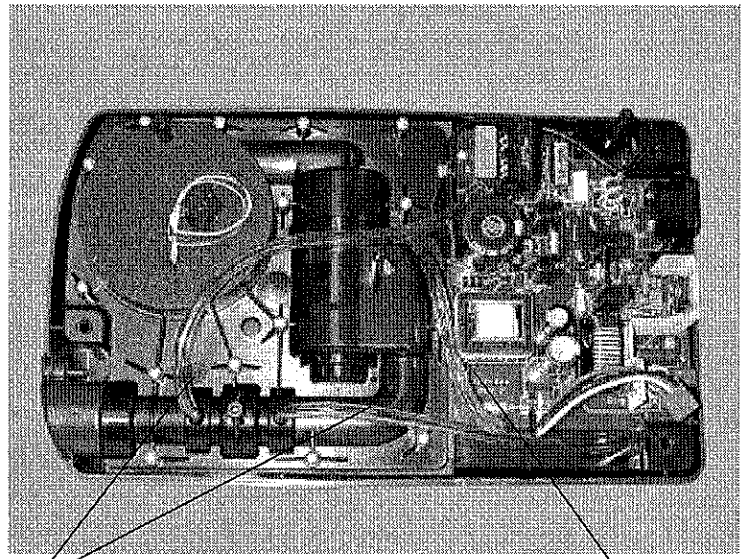



*Figure 7-20*
*Pressure Tubing*

*Pressure and Mass Flow Tubing Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors.

(See Section 7.4.4 for more detailed instructions on removing the top enclosure assembly.)

### *Step 2 Removing the Main PCA (Partial)*

**NOTE:** The pressure tubing can be removed from the Main PCA without disconnecting the blower and power supply connections. Care should be taken during the process not to damage the Main PCA, blower assembly, or power supply.

Remove:
- five screws
- pressure tubing
- mass flow sensor tubing

(See Section 7.4.7 for more detailed instructions on removing the main PCA.)

### *Step 3 Removing the Pressure and Mass Flow Sensor Tubing from the Blower Assembly*

a. Disconnect the two pieces of 9″ mass flow sensor tubing from the pressure ports on the blower assembly.

b. Disconnect the 5″ pressure tubing from the pressure port on the blower assembly.

### *Step 4 Installing the Pressure and Mass Flow Sensor Tubing on the blower Assembly.*

a. Attach the 5″ pressure tubing to the pressure port on the blower assembly.

b. Attach the two pieces of 9″ mass flow sensor tubing to the pressure ports of the blower assembly.

### *Step 5 Installing the Main PCA (Partial)*

Install:
- five screws
- mass flow sensor tubing
- pressure tubing

(See Section 7.4.7 for more detailed instructions on installing the Main PCA.)

*Pressure and Mass Flow Tubing Replacement (Continued)*

### *Step 6 Installing the Top Enclosure Assembly*

Install
- control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure.)

# 7.4.9 Outlet Port Replacement

## Replacement Part Number 622239

| Included in Kit: | Tools Required: |
|---|---|
| Outlet port<br>Outlet port seal | Phillips screwdriver (No. 2 medium) |

## Procedure

Removed / Installed During Process:

- Top enclosure assembly (See Section 7.4.4 for more detailed instructions.)
- Main PCA (See Section 7.4.7 for more detailed instructions.)
- Pressure tubing (See Section 7.4.8 for more detailed instructions.)

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

*Figure 7-21*
*Outlet port*

*Outlet Port Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors.

(See Section 7.4.4 for more detailed instructions on removing the top enclosure assembly.)

### *Step 2 Removing the Outlet Port*

a. Remove the outlet port from the blower assembly by lifting upwards until the outlet port clears the bottom enclosure and pulling it straight out from the blower.

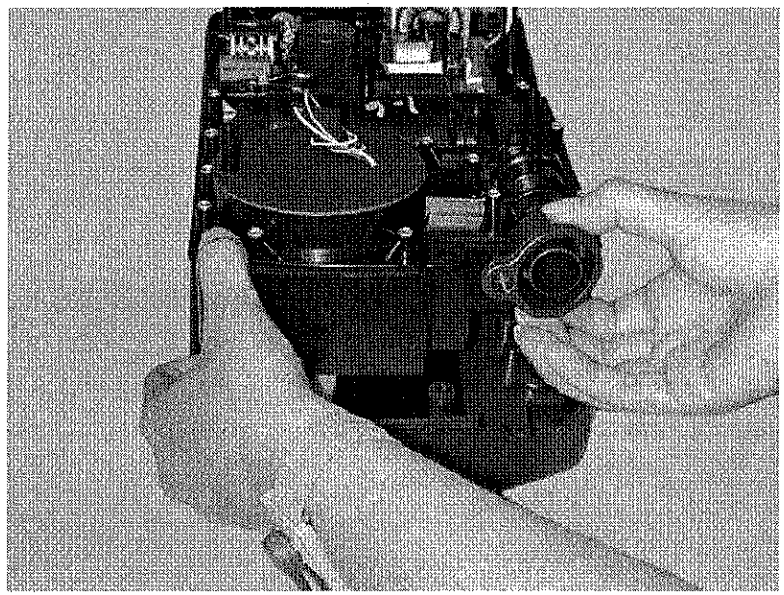


***Figure 7-22***
***Removing the Outlet Port***

### *Step 3 Installing the Outlet Port*

a. Grasp the blower assembly and slightly lift the enclosure insert to allow the outlet port to clear the bottom enclosure and be inserted into the blower outlet.

b. Slowly lower the enclosure insert assembly into the bottom enclosure while ensuring that the outlet port is properly seated in the bottom enclosure. Note that the pressure fitting on the outlet port must point towards the middle of the bottom enclosure.

### *Step 4 Installing the Top Enclosure Assembly*

Install:
- control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure.)

## 7.4.10 Blower Assembly Replacement

**CAUTION:** Due to required testing after replacement, this item is only replaceable at a Respironics Service Center equipped with a Multi Function Test Station.

### Replacement Part Number 622187

| Included in Kit: | Tools Required: |
|---|---|
| Blower Assembly | Phillips screwdriver (No. 2 medium) |
| Blower-to-enclosure insert seal | Torque wrench (in-lbs.) |
| Flow Element | |
| Flow Averaging Rings | |
| 6 - 13 x 3/4" screws (x15) | |

### Procedure

Removed / Installed During Process

- Top enclosure (See Section 7.4.4 for more detailed instructions.)
- Main PCA (See Section 7.4.7 for more detailed instructions.)
- Pressure tubing (See Section 7.4.8 for more detailed instructions.)
- Outlet port (See Section 7.4.9 for more detailed instructions.)

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

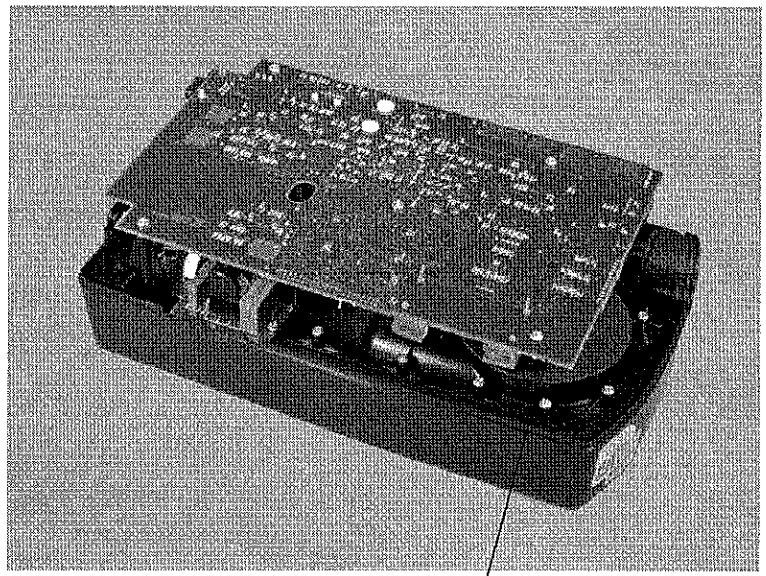



*Figure 7-23*
*Blower Assembly*

*Blower Assembly Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors

(See Section 7.4.4 for more detailed instructions on removing the top enclosure.)

### *Step 2 Removing the Main PCA*

Remove:
- five screws
- blower wire connector
- power supply connector
- valve assembly connector
- pressure tubing
- mass flow sensor tubing
- Main PCA

(See Section 7.4.7 for more detailed instructions on removing the Main PCA.)

### *Step 3 Removing the Pressure Tubing*

Remove:
- mass flow sensor tubing
- pressure tubing

(See Section 7.4.8 for more detailed instructions on removing the pressure and mass flow sensor tubing.)

### *Step 4 Removing the Outlet Port*

Remove:
- outlet port

(See Section 7.4.9 for more detailed instructions on removing the outlet port.)

### *Step 5 Removing the Blower Assembly*

a. Using a Phillips screwdriver, remove the 15 screws securing the blower assembly to the enclosure insert.

b. Note the location and routing of the valve assembly wires.

c. Lift the blower assembly up from the enclosure insert.

d. Remove the blower-to-enclosure insert seal from the enclosure insert.

*Blower Assembly Replacement (Continued)*

**NOTE:** Some upward force on one of the edges may be needed because the blower-to-enclosure insert seal will hold the two pieces together.

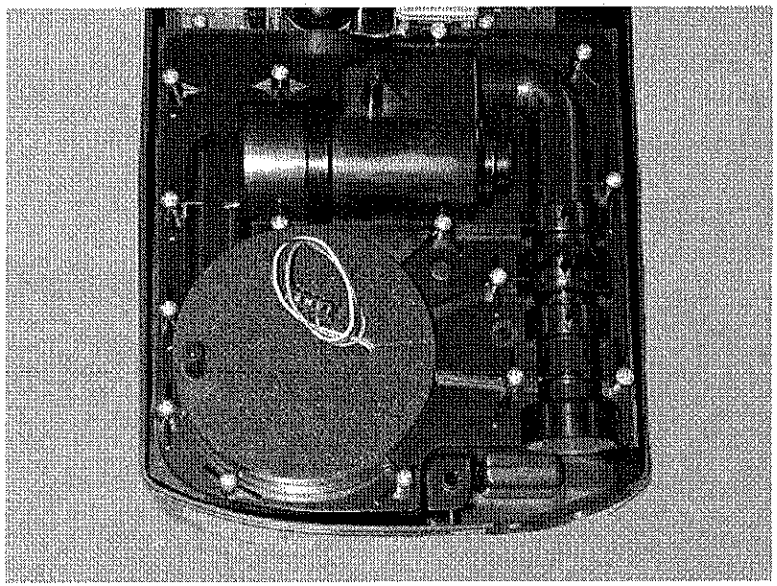


*Figure 7-24*
*Location of the Blower Assembly Screws*

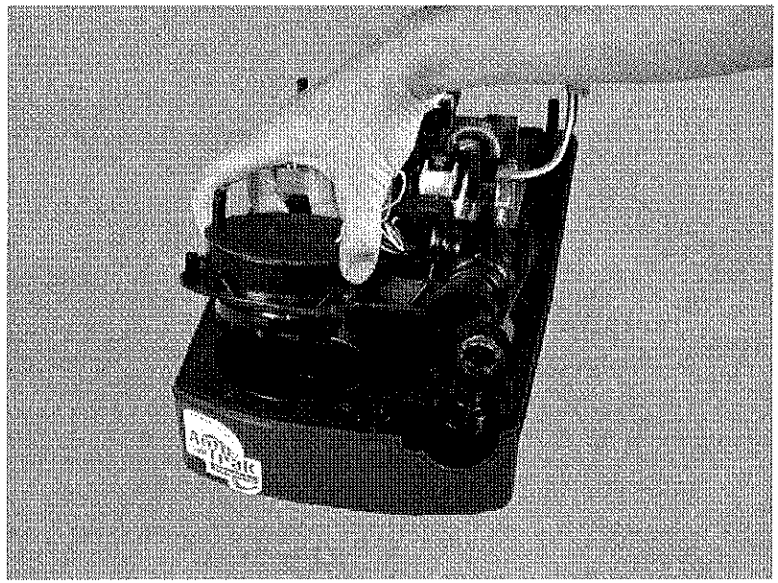


*Figure 7-25*
*Removing the Blower Assembly*

*Blower Assembly Replacement (Continued)*

### *Step 6 Installing the Blower Assembly*

a. Position the blower-to-enclosure insert seal in place on the enclosure insert.

b. Ensure that the valve assembly is correctly positioned.

c. Ensure that the valve assembly wires are correctly positioned and routed.

d. Ensure that the flow element and flow averaging rings are positioned and facing in the proper direction.

e. Align the blower assembly with the holes in the enclosure insert, then set the blower assembly in place.

f. Insert and tighten the 15 screws provided to secure the blower assembly to the enclosure insert.

**NOTE:** The screws should be torqued to a maximum of 8 in-lbs. Excessive torque may cause the blower impeller to contact the enclosure insert.

### *Step 7 Installing the Outlet Port*

Install
- outlet port

(See Section 7.4.9 for more detailed instructions on installing the outlet port.)

### *Step 8 Installing the Pressure Tubing*

Install:
- pressure tubing
- mass flow sensor tubing

(See Section 7.4.8 for more detailed instructions on installing the pressure and mass flow sensor tubing.)

### *Step 9 Installing the Main PCA*

Install:
- pressure tubing
- mass flow sensor tubing
- valve assembly connector
- power supply connector

*Blower Assembly Replacement (Continued)*

- blower wire connector
- Main PCA
- five screws

(See Section 7.4.7 for more detailed instructions on installing the Main PCA

### *Step 10 Installing the Top Enclosure Assembly*

Install
- control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure assembly.)

## 7.4.11 Valve Assembly Replacement

**CAUTION:** Due to required testing after replacement, this item is only replaceable at a Respironics Service Center equipped with a Multi Function Test Station.

**Replacement Part Number 622242**

| Included in Kit: | Tools Required: |
|---|---|
| Valve Assembly<br>Blower-to-enclosure insert seal<br>Flow Element<br>Flow Averaging Rings | Phillips screwdriver (No. 2 medium) |

### Procedure

Removed / Installed During Process

- Top enclosure (See Section 7.4.4 for more detailed instructions.)
- Main PCA (See Section 7.4.7 for more detailed instructions.)
- Pressure tubing (See Section 7.4.8 for more detailed instructions.)
- Outlet port (See Section 7.4.9 for more detailed instructions.)
- Blower assembly (See Section 7.4.10 for more detailed instructions.)

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

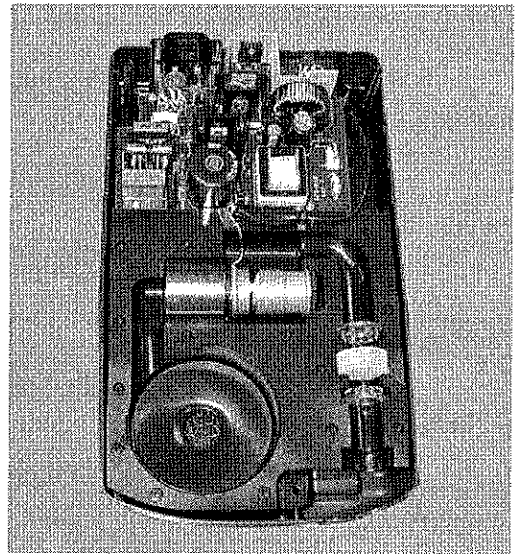


*Figure 7-26*
*Valve Assembly*

*Valve Assembly Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors

(See Section 7.4.4 for more detailed instructions on removing the top enclosure.)

### *Step 2 Removing the Main PCA*

Remove:
- five screws
- blower wire connector
- power supply connector
- valve assembly connector
- pressure tubing
- mass flow sensor tubing
- Main PCA

(See Section 7.4.7 for more detailed instructions on removing the Main PCA.)

### *Step 3 Removing the Pressure Tubing*

Remove:
- mass flow sensor tubing
- pressure tubing

(See Section 7.4.8 for more detailed instructions on removing the pressure and mass flow sensor tubing.)

### *Step 4 Removing the Outlet Port*

Remove:
- outlet port

(See Section 7.4.9 for more detailed instructions on removing the outlet port.)

### *Step 5 Removing the Blower Assembly*

Remove:
- 15 screws
- blower assembly

(See Section 7.4.10 for more detailed instructions on removing the blower assembly.)

*Valve Assembly Replacement (Continued)*

### *Step 6 Removing the Valve Assembly*

a. Remove the valve assembly by lifting it out of the enclosure insert.

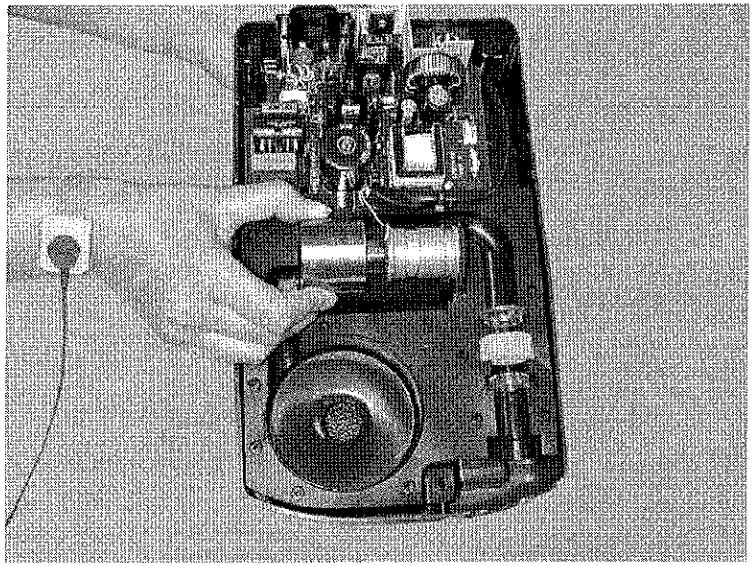


***Figure 7-27***
***Removing the Valve Assembly***

### *Step 7 Installing the Valve Assembly*

a. Ensure that the rubber seal is properly seated on the end of the valve assembly.

b. Place the valve assembly into its correct position in the enclosure insert.

**NOTE:** The valve assembly wires should be positioned so there is enough slack in the wires to allow the valve to move and should not block the pressure port.

### *Step 8 Installing the Blower Assembly*

Install:

- blower assembly
- blower-to-enclosure insert seal
- fifteen screws

(See Section 7.4.10 for more detailed instructions on installing the blower assembly.)

*Valve Assembly Replacement (Continued)*

### *Step 9 Installing the Outlet Port*

Install
- outlet port

(See Section 7.4.9 for more detailed instructions on installing the outlet port.)

### *Step 10 Installing the Pressure Tubing*

Install:
- pressure tubing
- mass flow sensor tubing

(See Section 7.4.8 for more detailed instructions on installing the pressure and mass flow sensor tubing.)

### *Step 11 Installing the Main PCA*

Install:
- pressure tubing
- mass flow sensor tubing
- valve assembly connector
- power supply connector
- blower wire connector
- Main PCA
- five screws

(See Section 7.4.7 for more detailed instructions on installing the Main PCA)

### *Step 12 Installing the Top Enclosure Assembly*

Install
- control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure assembly.)

## 7.4.12 Flow Element and Flow Averaging Rings Replacement

**NOTE:** Flow Element and Flow Averaging Rings are included in the following RP Kits:
**Replacement Part Number 622187**
**Replacement Part Number 622242**

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

### Procedure

Removed / Installed During Process

- Top enclosure (See Section 7.4.4 for more detailed instructions.)
- Main PCA (See Section 7.4.7 for more detailed instructions.)
- Pressure tubing (See Section 7.4.8 for more detailed instructions.)
- Outlet port (See Section 7.4.9 for more detailed instructions.)
- Blower assembly (See Section 7.4.10 for more detailed instructions.)
- Valve assembly (See Section 7.4.11 for more detailed instructions.)

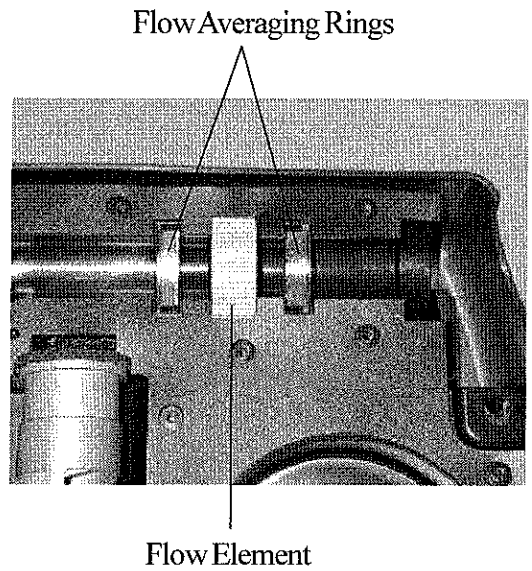



***Figure 7-28***
***Flow Element / Flow Averaging Rings***

*Flow Element / Flow Averaging Rings Replacement (Continued)*

### *Step 1 Removing the Top Enclosure Assembly*

Remove:
- three screws
- top enclosure
- control pad ribbon cable and display assembly ribbon cable connectors

(See Section 7.4.4 for more detailed instructions on removing the top enclosure.)

### *Step 2 Removing the Main PCA*

Remove:
- five screws
- blower wire connector
- power supply connector
- valve assembly connector
- pressure tubing
- mass flow sensor tubing
- Main PCA

(See Section 7.4.7 for more detailed instructions on removing the Main PCA.)

### *Step 3 Removing the Pressure Tubing*

Remove:
- mass flow sensor tubing
- pressure tubing

(See Section 7.4.8 for more detailed instructions on removing the pressure and mass flow sensor tubing.)

### *Step 4 Removing the Outlet Port*

Remove:
- outlet port

(See Section 7.4.9 for more detailed instructions on removing the outlet port.)

### *Step 5 Removing the Blower Assembly*

Remove:
- 15 screws
- blower assembly

(See Section 7.4.10 for more detailed instructions on removing the blower assembly.)

### *Step 6 Removing the Valve Assembly*

Remove:
- valve assembly

(See Section 7.4.11 for more detailed instructions on removing the valve assembly.)

*Flow Element / Flow Averaging Rings Replacement (Continued)*

### *Step 7 Removing the Flow Element and Flow Averaging Rings*

a. Remove the flow element and flow averaging rings by lifting them out of the enclosure insert.

b. Remove the blower-to-enclosure insert seal.

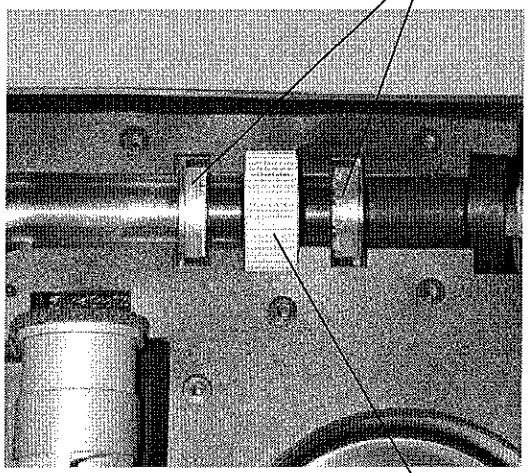



***Figure 7-29***
***Flow Element / Flow Averaging Rings***

### *Step 8 Installing the Flow Element and Flow Averaging Rings*

a. Place the blower-to-enclosure insert seal on the enclosure insert.

b. Place the flow element into the enclosure insert.

c. Place the two flow averaging rings into the enclosure insert.

**NOTE:** Verify notches on the flow averaging rings face the flow element.

### *Step 9 Installing the Valve Assembly*

Install: valve assembly

(See Section 7.4.11 for more detailed instructions on installing the valve assembly.)

*Flow Element / Flow Averaging Rings Replacement (Continued)*

### *Step 10 Installing the Blower Assembly*

Install:
- blower assembly
- blower-to-enclosure insert seal
- fifteen screws

(See Section 7.4.10 for more detailed instructions on installing the blower assembly.)

### *Step 11 Installing the Outlet Port*

Install:
- outlet port

(See Section 7.4.9 for more detailed instructions on installing the outlet port.)

### *Step 12 Installing the Pressure Tubing*

Install:
- pressure tubing
- mass flow sensor tubing

(See Section 7.4.8 for more detailed instructions on installing the pressure and mass flow sensor tubing.)

### *Step 13 Installing the Main PCA*

Install:
- pressure tubing
- mass flow sensor tubing
- valve assembly connector
- power supply connector
- blower wire connector
- Main PCA
- five screws

(See Section 7.4.7 for more detailed instructions on installing the Main PCA

### *Step 14 Installing the Top Enclosure Assembly*

Install:
- control pad ribbon cable and display assembly ribbon cable connectors
- top enclosure
- three screws

(See Section 7.4.4 for more detailed instructions on installing the top enclosure assembly.)

## 7.4.13 Power Supply Printed Circuit Assembly Replacement

**CAUTION:** Due to required testing after replacement, this item is only replaceable at a Respironics Service Center equipped with a Multi Function Test Station.

### Replacement Part Number 1002071

| Included in Kit: | Tools Required: |
|---|---|
| Power Supply PCA<br>6-13 x 1/4″ screws (x4) | Phillips screwdriver (No. 2 medium) |

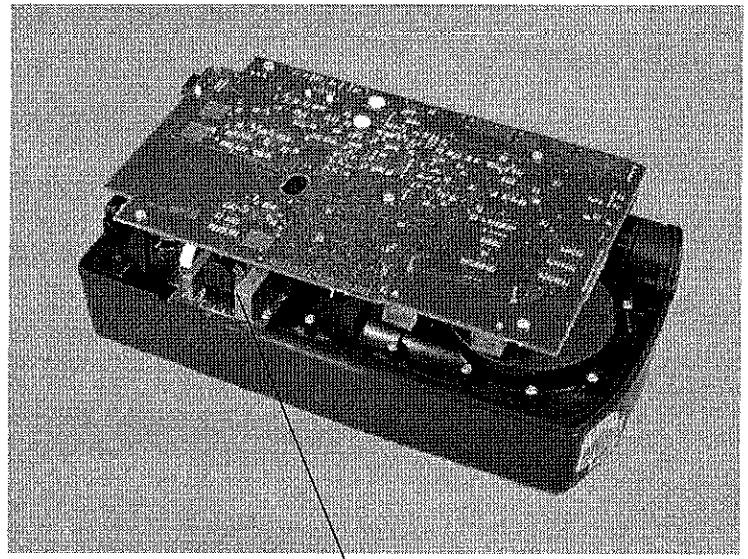
### Procedure

Removed / Installed During Process:

- Top enclosure (See Section 7.4.4 for more detailed instructions.)
- Main PCA (See Section 7.4.7 for more detailed instructions.)
- Power Supply PCA

**WARNING:** Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

**CAUTION:** Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.



**Power Supply PCA**

***Figure 7-30***
***Power Supply PCA***